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NOTICE OF ALLOWANCE AND FEE(S) DUE

52989

7590

10/28/2010

EXAMINER

SAMS, MATTHEW C

ART UNIT PAPER NUMBER

Dickinson Wright PLLC James E. Ledbetter, Esq. International Square 1875 Eye Street, N.W., Suite 1200 Washington, DC 20006

2617

DATE MAILED: 10/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/563.878	01/09/2006	Rahul Malik	L9289.05202	7288	

TITLE OF INVENTION: ACCESS POINT IN A WIRELESS NETWORK MEDIUM ACCESS CONTROL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/28/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (orders and notification (a) specifying a new co	of m orresp	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	corresponden rate "FEE AI	ce address as DDRESS" for
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Dickinson Wright PLLC James E. Ledbetter, Esq. International Square				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an eaddressed to the Mail Stop ISSUE FEE address above, or being f transmitted to the USPTO (571) 273-2885, on the date indicated below					th the United an envelope ing facsimile below.
1875 Eye Street Washington, DC	, N.W., Suite 1200			(Depositor's name)					
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									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMA	TION NO.
10/563,878	01/09/2006	•	Rahul Malik				L9289.05202	728	38
TITLE OF INVENTION	: ACCESS POINT IN A	WIRELESS NETWORI	K MEDIUM ACCESS	CON	TROL SYSTEM				
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	01/28/2011	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
SAMS, MA	ATTHEW C	2617	370-334000						
1. Change of correspond CFR 1.363). Change of correspond CFR 1.363). Change of correspond CFR 1.363). The Address of the PTO/SB/47; Rev 03-03-03-03-03-03-03-03-03-03-03-03-03-0	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a 2								
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NC	data will appear on the Ta substitute for filing (B) RESIDENCE: (C)	ne pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	RY)		
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entity 📮	Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Pleas	se first reapply a	ıy prev	iously paid issue fee s	hown above))
Issue Fee			A check is enclosed.						
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					edit any	
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an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR	1.14. This collection is depending upon the interest of the Chief Information OCOMPLETED FORM	s esti ndivi ffice S TO	imated to take 12 ridual case. Any cor, U.S. Patent and DTHIS ADDRESS	minutes omment Traden S. SENI	to complete, including son the amount of tire thank Office, U.S. Depart TO: Commissioner for the transfer of t	g gathering, positive requirement of Coror Patents, P.	reparing, and e to complete mmerce, P.O. O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/563,878	01/09/2006	Rahul Malik	L9289.05202	7288	
52989 75	590 10/28/2010		EXAM	INER	
Dickinson Wrigh	t PLLC	SAMS, MATTHEW C			
James E. Ledbetter	, Esq.	ART UNIT	PAPER NUMBER		
International Squar		2617			
1875 Eye Street, N		DATE MAILED: 10/28/2010			
Washington, DC 2	0006				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 755 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 755 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/562 070	MALIK ET AL.		
Notice of Allowability	10/563,878 Examiner	Art Unit		
·		0047		
	MATTHEW SAMS	2617		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commural IGHTS . This application is su	this application. If not includ- nication will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>9/23/2010</u> .				
2. X The allowed claim(s) is/are 33,35-38,40-47 and 49.				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.			
Copies of the certified copies of the priority do	• •		tion from the	
International Bureau (PCT Rule 17.2(a)).		tille riational stage applica		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the red	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or i	n the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s)	5 - - - - - - - - - -	15.4.4.4.11.41		
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		ormal Patent Application		
	Paper No./M	lail Date		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's A	mendment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for A				
9.				
/MATTHEW SAMS/				
Examiner, Art Unit 2617				

Allowable Subject Matter

1. Claims 33, 35-38, 40-47 and 49 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Applicant's independent claims recite, inter alia, a medium access control system in a wireless network, comprising an access point equipped with a space division multiple access compatible multi-beam antenna and a plurality of transceivers that can respectively be simultaneously connected to different antenna beams and transmit data using a superframe, and one or more stations spaced apart in a reception space of a wireless local area network, wherein the superframe has a timing structure comprising a periodically transmitted beacon frame transmitted by the access point that reports existence of a wireless network and provides a timing reference to each station on the network, a supervised access mode that is a period in which the access point multibeam antenna is configured in a directional pattern, the access point controls access to a wireless channel and adjusts transmission with a plurality of stations by utilizing multibeam antenna characteristics such that simultaneous transmissions with the plurality of stations can be implemented on a same wireless channel, and each station follows predetermined rules defined by the access point or by a network coordinator, an unsupervised access mode that is a period in which the access point multi-beam antenna is configured in an omni-directional pattern, and each station executes rulefree, contention based access to a wireless channel and signaling whereby the access point or terminates the supervised access mode or the unsupervised access mode, wherein the beacon frame provides each station with the multi-beam antenna

characteristics of a directional pattern or omni-directional pattern, when the multi-beam antenna characteristic is the directional pattern, the unsupervised access mode is executed in order to detect a new station in the reception space and when the multi-beam antenna characteristic is the omni-directional pattern, the unsupervised access mode is executed in a case where a rogue station is detected in the reception space.

Page 3

The closed prior art of record, Adachi and Gurbuz differs by not teaching the specifics regarding when using the directional antenna pattern, the unsupervised access mode being executed in order to detect a new station in reception space and when the antenna is an omni-directional pattern, the unsupervised access mode is used when a rogue station is detected.

Applicant's invention recites a particular combination that is neither taught nor suggested in the prior art. Applicant's invention is allowed for this reason and for the reasons stated by the Applicant in the responses filed on 1/9/2006, 10/29/2009, 3/29/2010 and 9/23/2010.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW SAMS whose telephone number is (571)272-8099. The examiner can normally be reached on M-F 8-6.

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Art Unit: 2617

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MATTHEW SAMS/ Examiner, Art Unit 2617